### SUMMARY

### **DECISION SUPPORT**

### PATIENT EDUCATION/SELF MANAGEMENT

#### **G**OAL

✓ OFFER SCREENING

✓ IDENTIFY ACUTE SEROCONVERSION

IDENTIFY CHRONIC

(SEE IN FOCUS "SEEK, TEST, TREAT") **ALERTS** ALL HIV INFECTED PATIENTS MUST BE MANAGED IN CONJUNCTION WITH AN HIV SPECIALIST.

#### THE FOLLOWING HIV INFECTED PATIENTS NEED PROMPT EVALUATION:

- ⇒Newly diagnosed HIV infection.
- ⇒Acute seroconversion: look for fever, lymphadenopathy, pharyngitis, rash, myalgia, diarrhea and/or headache present for 6-8 weeks; note that HIV antibody testing might be negative this early in the infection. Consider HIV viral load testing in addition to antibody testing in suspected acute seroconversion.
- ⇒Those on treatment but only receiving one or two antiretroviral medications (note that some coformulations exist)
- ⇒Those on treatment for an extended period of time in whom viral load is remains detectable
- ⇒ New onset fevers, unintentional weight loss >10%, fatigue, dyspnea, skin lesions, anemia regardless of CD4.
- ⇒CD4 < 200 cells/mm<sup>3</sup> and not on PCP prophylaxis.
- ⇒CD4< 50 cells/mm<sup>3</sup> and not on MAC prophylaxis.
- ⇒CD4 <200 cells/mm³and dyspnea, cough, fevers.
- ⇒CD4 <100 cells/mm³and headache, blurry or lost vision.

### **DIAGNOSTIC CRITERIA/EVALUATION**

BASELINE LABS:									
HIV antibody (ELISA/Western blot)	) if not in UHR		RPR						
CD4 cell count		Urinalysis							
HIV viral load, quantitative		Urine Gonorrhea/Chlamydia (NAA	T)						
HIV Genotype if newly diagnosed a	and no genotype report in UHR	Toxoplasmosis IgG							
CBC with differential		HLA B 5701							
Complete Metabolic Panel			PPD if not done in past 1 year and no hx positive PPD						
Fasting Lipid panel			PA and lateral CXR if not in chart						
Hepatitis A serology, Hepatitis B sa	Ag, cAb, sAb; Hepatitis C Ab								
ROUTINE LABS: QUARTERLY									
CD4 cell count			CBC with differential						
HIV Viral load, quantitative			Complete Metabolic Panel						
ROUTINE LABS: ANNUALLY AND	IF INDICATED								
RPR	Hep C Ab if previously negative	Urine Gond	orrhea/Chlamydia (NAAT)	Fasting lipid					

COMPLETE HISTORY & PHYSICAL INCLUDING: date of diagnosis; transmission risk factor; lowest (nadir) CD4; history of opportunistic infections and other AIDS related conditions; risk reduction strategies; medications; smoking/substance use history; vaccination history; thorough review of systems

#### TREATMENT OPTIONS

#### INITIATING TREATMENT: GUIDELINES FOR WHEN TO START AND WHAT TO USE

NOTE: DO NOT INITIATE, CHANGE OR DISCONTINUE HIV MEDICATIONS WITHOUT FIRST CONSULTING AN HIV SPECIALIST.

- 1. When to start: antiretroviral therapy should be initiated, in consultation with an HIV specialist, in patients with
  - a. History of or current AIDS defining conditions: offer treatment regardless of CD4
  - b. CD4 cell count thresholds:
    - i. CD4 <350 cells/mm<sup>3</sup>: offer treatment
    - ii. CD4 350 500 cells/mm³ consider starting treatment
    - iii. CD5 >500 cells/mm<sup>3</sup> some experts recommend starting therapy
  - c. Pregnancy: HIV Specialty consultation required.
  - d. Chronic active hepatitis B coinfection requiring treatment
  - e. HIV associated nephropathy
- 2. What to use: monotherapy or dual therapy is **NEVER** acceptable; at a minimum, 3 agents must be used in combination

Efavirenz + Tenofovir + Emtricitabine (Atripla)

Atazanavir (Reyataz) boosted with Ritonavir (Norvir) + Tenofovir + Emtricitabine (Truvada)

Darunavir (Prezista) boosted with Ritonavir (Norvir) + Tenofovir + Emtricitabine (Truvada)

Raltegravir (Isentress) + Tenofovir + Emtricitabine (Truvada)

\*See medication section for precautions and side effects. Pay particular attention to specific contraindications and interactions between HIV medications and the patient's existing medication profile.

#### MONITORING

- •Patients initiating antiretroviral medications may need follow up within 1-2 weeks after starting treatment to assess for toxicity, tolerability and adherence. Monthly laboratory assessment and clinical follow up may be required thereafter until the patient achieves an undetectable viral load.
- •Well controlled patients (defined as HIV viral load undetectable and CD4 cell count >200 cells/mm3) require quarterly laboratory assessment and clinical follow up.

Aberg IA, et al. HIV Medicine Association of the Infectious Diseases Society of America. Primary Care Guidelines for the Management of Persons Infected with Human Immunodeficiency Virus: 2009 Update by the HIV Medicine Association of the Infectious Diseases Society of America. Clin Infect Dis. (2009) 49 (5): 651-681

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### PATIENT EDUCATION/SELF MANAGEMENT

#### **CDC CLASSIFICATION SYSTEM FOR HIV-INFECTED ADULTS**

KEY TO ABBREVIATIONS: CDC = U.S. CENTERS FOR DISEASE CONTROL AND PREVENTION; PGL = PERSISTENT GENERALIZED LYMPHADE-NOPATHY.

	CLINICAL CATEGORIES											
CD4 CELL CATEGORIES	A ASYMPTOMATIC, ACUTE HIV, OR PGL	B SYMPTOMATIC CONDITIONS, NOT A OR C	C AIDS-INDICATOR CONDITIONS									
(1) ≥500 cells/μL	A1	B1	C1									
(2) 200-499 cells/µL	A2	B2	C2									
(3) <200 cells/μL	А3	В3	C3									

#### **CATEGORY B SYMPTOMATIC CONDITIONS**

Category B symptomatic conditions are defined as symptomatic conditions occurring in an HIV-infected adolescent or adult that meet at least 1 of the following criteria:

- a) They are attributed to HIV infection or indicate a defect in cell-mediated immunity.
- b) They are considered to have a clinical course or management that is complicated by HIV infection.

Examples include, but are not limited to, the following:

- · Bacillary angiomatosis
- Oropharyngeal candidiasis (thrush)
- Vulvovaginal candidiasis, persistent or resistant
- Pelvic inflammatory disease (PID)
- · Cervical dysplasia (moderate or severe)/cervical carcinoma in situ
- Hairy leukoplakia, oral
- Idiopathic thrombocytopenia purpura
- Constitutional symptoms, such as fever (>38.5°C) or diarrhea lasting >1 month
- Peripheral neuropathy
- Herpes zoster (shingles), involving ≥2 episodes or ≥1 dermatome

#### **CATEGORY C AIDS-INDICATOR CONDITIONS**

- Bacterial pneumonia, recurrent (≥2 episodes in 12 months)
- Candidiasis of the bronchi, trachea, or lungs
- Candidiasis, esophageal
- Cervical carcinoma, invasive, confirmed by biopsy
- Coccidioidomycosis, disseminated or extrapulmonary
- · Cryptococcosis, extrapulmonary
- Cryptosporidiosis, chronic intestinal (>1-month duration)
- Cytomegalovirus disease (other than liver, spleen, or nodes)
- Encephalopathy, HIV-related
- Herpes simplex: chronic ulcers (>1-month duration), or bronchitis, pneumonitis, or esophagitis
- Histoplasmosis, disseminated or extrapulmonary
- Isosporiasis, chronic intestinal (>1-month duration)
- Kaposi sarcoma
- Lymphoma, Burkitt, immunoblastic, or primary central nervous system
- Mycobacterium avium complex (MAC) or M kansasii, disseminated or extrapulmonary
- Mycobacterium tuberculosis, pulmonary or extrapulmonary
- · Mycobacterium, other species or unidentified species, disseminated or extrapulmonary
- Pneumocystis jiroveci (formerly carinii ) pneumonia (PCP)
- Progressive multifocal leukoencephalopathy (PML)
- Salmonella septicemia, recurrent (nontyphoid)
- Toxoplasmosis of brain
- Wasting syndrome due to HIV (involuntary weight loss >10% of baseline body weight) associated with either chronic diarrhea
   (≥2 loose stools per day ≥1 month) or chronic weakness and documented fever ≥1 month

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PATHOGEN	Indication	FIRST CHOICE	ALTERNATIVE				
PATHOGEN Pneumocystis pneumonia (PCP)	INDICATION  CD4+ count <200 cells/µL or oropharyngeal candidiasis  CD4+ <14% or history of AIDS-defining illness  CD4+ count >200 but <250 cells/µL if monitoring CD4+ count every 1–3 months is not possible	FIRST CHOICE  Trimethoprim- sulfamethoxazole (TMP-SMX), 1 DS PO daily; or 1 SS daily	ALTERNATIVE  TMP-SMX 1 DS PO tiw or  Dapsone 100 mg PO daily or 50 mg PO bid or  Dapsone 50 mg PO daily + pyrimethamine 50 mg PO weekly + leucovorin 25 mg PO weekly or  Aerosolized pentamidine 300 mg via Respigard II™ nebulizer every month or  Atovaquone 1,500 mg* PO daily or  Atovaquone 1,500 mg* +				
Toxoplasma gondii encephalitis	Toxoplasma IgG positive patients with CD4+ count <100 cells/µL  Seronegative patients receiving PCP prophylaxis not active against toxoplasmosis should have toxoplasma serology retested if CD4+ count decline to <100 cells/µL  Prophylaxis should be initiated if Toxoplasmosis IgG seroconversion	TMP-SMX, 1 DS PO daily	pyrimethamine 25 mg + leucovorin 10 mg PO daily  TMP-SMX 1 DS PO tiw or  TMP-SMX 1 SS PO daily  Dapsone 50 mg PO daily + pyrimethamine 50 mg PO weekly of (Dapsone 200 mg + pyrimethamine 75 mg + leucovorin 25 mg) PO weekly; (Atovaquone 1,500 mg* +/ pyrimethamine 25 mg + leucovorin 10 mg) PO daily				
Mycobacterium tuberculosis infection (Treatment of latent TB infection or LTBI)	(+) diagnostic test for LTBI, no evidence of active TB, and no prior history of treatment for active or latent TB (-) diagnostic test for LTBI, but close contact with a person with infectious pulmonary TB and no evidence of active TB A history of untreated or inadequately treated healed TB (i.e., old fibrotic lesions) regardless or diagnostic tests for LTBI and no evidence of active TB	Isoniazid (INH) 300 mg PO daily + pyridoxine 50 mg PO daily for 9 months or Isoniazid (INH) 900 mg PO biw + pyridoxine 50 mg PO daily for 9 months  For persons exposed to drug-resistant TB, selection of drugs after consultation with public health authorities	Rifampin (RIF) 600 mg PO daily x 4 months or  Rifabutin (RFB) (dose adjusted based on concomitant ART) x 4 months  Multiple drug-drug interactions exist between rifampin and HIV medications. Consultation with HIV specialist or pharmacist strongly advised.				
Disseminated Mycobacterium avium complex (MAC) disease	CD4+ count <50 cells/µL after ruling out active MAC infection	Azithromycin 1,200 mg* PO once weekly or Clarithromycin 500 mg* PO bid or Azithromycin 600 mg* PO twice weekly	RFB 300 mg PO daily (dosage adjustment based on drug-dru interactions with ART); rule ou active TB before starting RFB				

In general, primary prophylaxis against the following conditions is not recommended:

- CMV
- · Cryptococcal disease
- Histoplasmosis
- Candidiasis
- Coccidioidomycosis

HIV expert consultation required prior to any OI prophylaxis initiation, dosage change, or discontinuation.

Centers for Disease Control and Prevention. Guidelines for Prevention and Treatment of Opportunistic Infections in HIV-Infected Adults and Adolescents. MMWR 2009;58: Pg.145-146.

### **CCHCS Care Guide: HIV**

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### PATIENT EDUCATION/SELF MANAGEMENT

## ANTIRETROVIRAL (ARV) REGIMENS RECOMMENDED FOR TREATMENT-NAÏVE PATIENTS NOTE: DO NOT INITIATE, CHANGE OR DISCONTINUE HIV MEDICATIONS WITHOUT FIRST CONSULTING AN HIV SPECIALIST.

PREFERRED REGIMENS (REGIMENS WITH OPTIMAL AND DURABLE EFFICACY, FAVORABLE TOLERABILITY AND TOXICITY PROFILE, AND EASE OF LISE)

The preferred regimens for non-pregnant patients are arranged by order of FDA approval of components other than nucleosides, thus, by duration of clinical experience.

Non-Nucleoside Reverse Transcriptase Inhibitors-based Regimen

#### Efavirenz/ Tenofovir/ Emtricitabine

Protease Inhibitor based Regimens (in alphabetical order)

Atazanavir boosted with Ritonavir + Tenofovir/ Emtricitabine

Darunavir boosted with Ritonavir (once daily) + Tenofovir/Emtricitabine

Intergrase Strand Transfer Inhibitor-based Regimen

Raltegravir + Tenofovir/ Emtricitabine

Preferred Regimen for Pregnant Women

Lopinavir/Ritonavir (twice daily) + Zidovudine + Lamivudine

#### Comments

#### Efavirenz:

 Should not be used during the first trimester of pregnancy or in women trying to conceive or not using effective and consistent contraception.

#### Atazanavir:

 Should not be used in patients who require >20mg omeprazole equivalent per day.

#### Darunavir:

 Treatment experienced patients with a history of resistance to HIV medications require twice daily Darunavir boosted with Ritonavir. Consult an HIV specialist for dosing requirements.

**ALTERNATIVE REGIMENS** (REGIMENS THAT ARE EFFECTIVE AND TOLERABLE BUT HAVE POTENTIAL DISADVANTAGES COMPARED WITH PREFERRED REGIMENS. AN ALTERNATIVE REGIMEN MAY BE THE PREFERRED REGIMEN FOR SOME PATIENTS.)

Non-Nucleoside Reverse Transcriptase Inhibitors-based Regimens (in alphabetical order)

Efavirenz + (Abacavir or Zidovudine) + Lamivudine Nevirapine + Zidovudine + Lamivudine

Protease Inhibitor based Regimens (in alphabetical order)

Atazanavir boosted with Ritonavir + (Abacavir or Zidovudine)+ Lamivudine

Fosamprenavir boosted with Ritonavir (once or twice daily) + either [(Abacavir or Zidovudine) + Lamivudine] or Tenofovir/ Emtricitabine

Lopinavir/Ritonavir (once or twice daily) + either [(Abacavir or Zidovudine) + Lamivudine] or Tenofovir/Emtricitabine

#### Comments

#### Nevirapine:

- Should not be used in patients with moderate to severe hepatic impairment (Child-Pugh B or C)
- $\bullet$  Should not be used in women with pre-ARV CD4 >250 cells/mm3 or men with pre-ARV CD4 >400 cells/mm3

#### Abacavir:

- Should not be used in patients who test positive for HLA-B\*5701
- Use with caution in patients with high risk of cardiovascular disease or with pretreatment HIV-RNA >100,000 copies/mL

**Once-daily Lopinavir/Ritonavir** is not recommended in pregnant women.

Panel on Antiretroviral Guidelines for Adults and Adolescents. Guidelines for the use of antiretroviral agents in HIV-1-infected adults and adolescents. Department of Health and Human Services. January 10, 2011; 1-166. Available at <a href="http://www.aidsinfo.nih.gov/ContentFiles/AdultandAdolescentGL.pdf">http://www.aidsinfo.nih.gov/ContentFiles/AdultandAdolescentGL.pdf</a>

#### DENTAL MANAGEMENT OF HIV INFECTED PATIENTS

An otherwise stable HIV infected patient does not require special precautions or prophylaxis beyond universal precautions and the routine standard of care. Be aware that in cases of advanced immunosuppression, dental staff may consult medical staff for additional recommendations. For more information see the *Dental Management of Medically Complex Patients* at http://dental.pacific.edu/Documents/dental\_prof/Medically\_Complex.pdf

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### PATIENT EDUCATION/SELF MANAGEMENT

### RECOMMENDED IMMUNIZATIONS FOR HIV POSITIVE ADULTS

PLEASE NOTE THAT VACCINATIONS CAN CAUSE A TRANSIENT INCREASE IN HIV VIRAL LOAD WITHIN A FEW WEEKS AFTER ADMINISTRATION.
THIS INCREASE SHOULD RESOLVE OVER TIME AND DOES NOT USUALLY INDICATE THE DEVELOPMENT OF ANTIRETROVIRAL DRUG RESISTANCE.

IMMUNIZATION NAME	ASSOCIATED DISEASE	Dosage	COMMENTS AND WARNING
RECOMMENDED FOR ALL HIV	POSITIVE ADULTS		
Hepatitis B Virus (HBV)	Hepatitis B	3 shots over a 6- month period	Recommended unless there is evidence of immunity (Hepatitis B sAb positive) or active hepatitis (Hepatitis B sAg positive). Consider vaccination if isolated HBV cAb positive and HBV viral load negative. Blood test to check for HBV antibody levels should be done after completion of immunization series. Additional shots may be necessary if antibody levels are too low.
Influenza	Flu	1 shot	Must be given every year. Only injectable flu vaccine should be given to those who are HIV positive. The nasal spray vaccine (FluMist/LAIV) should not be used in this population.
Polysaccharide pneumo- coccal	Pneumonia	1 or 2 shots	Should be given soon after HIV diagnosis, unless vaccinated within the previous 5 years. If CD4 count is < 200 cells/mm3 when the vaccine is given, immunization should be repeated when CD4 count is > 200 cells/mm3. Repeat one time after 5 years.
Tetanus and Diptheria Toxoid (Td)	Lockjaw     Diptheria	1 shot	Repeat every 10 years.
Tetanus, Diphtheria, and Pertussis (Tdap)	Lockjaw     Diptheria     Pertussis	1 shot	Recommended for adults 64 years of age or younger and should be given in place of next Td booster. Can be given as soon as 2 years after last Td for persons in close contact with babies under 12 months and health care workers.
RECOMMENDED FOR SOME HI	V Positive Adults		
Hepatitis A Virus (HAV)	Hepatitis A	2 shots over a 1 or 1.5 year period	Recommended for all non-immune (Hepatitis A lgG Negative) HIV infected inmate-patients.
Hepatitis A/Hepatitis B Combined Vaccine (Twinrix)	1. Hepatitis A 2. Hepatitis B	3 shots over a 6 month period or 4 shots over a 1- year period	Can be used in those who require both HAV and HBV immunization.
Haemophilus influenzae Type B	Bacterial menin- gitis	1 shot	HIV positive adults and their health care providers should discuss whether Haemophilus influenzae immunization is needed.
Measles, Mumps, and Rubella (MMR)	1. Measles 2. Mumps 3. Rubella (German Measles)	1 or 2 shots	People born before 1957 do not need to receive this vaccine. HIV positive adults with CD4 counts < 200 cells/mm3 or clinical symptoms of HIV should not get the MMR vaccine. Each component can be given separately if needed to achieve adequate antibody levels.
Meningococcal	Bacterial menin- gitis	1 or 2 shots	Recommended for college students, military recruits, people who do not have a spleen, and people traveling to certain parts of the world. Repeat after 5 years if still at risk for infection.
Varicella	Chickenpox	2 shots over 4-8 weeks	People born before 1980 do not need to receive this vaccine.  Recommended unless there is evidence of immunity or CD4 count is 200 cells/mm³ or below. Not recommended to be given during pregnancy.
NOT RECOMMENDED FOR HIV	POSITIVE ADULTS		
Anthrax	Anthrax	The currently aver	able amallacy vaccine is a live viral vaccine. Come live vaccines are not re-
Smallpox	Smallpox	mended for people	able smallpox vaccine is a live viral vaccine. Some live vaccines are not recom- with HIV. Although the currently licensed anthrax vaccine is not a live vaccine, the
Zoster	Shingles	Advisory Committe	ee on Immunization Practices does not recommend routine anthrax vaccination.

This information is based on: (1) Recommended Adult Immunization Schedule - United States, January 9, 2009. Centers for Disease Control Website. Available at: http://www.cdc.gov/vaccines/recs/schedules/adult-schedule.htm. Accessed May 12, 2009. (2) MMWR Quick Guide Recommended Adult Immunization Schedule - United States, January 2009. Centers for Disease Control Web site.

Available at: http://www.cdc.gov/mmwr/PDF/wk/mm5753-Immunization.pdf. Accessed May 12 2009. (3) MMWR General Recommendations on Immunization December 1, 2006 / Vol.55 / No. RR-15. Centers for Disease Control Web site. Available at: http://www.cdc.gov/mmwr/preview/mmwrhtml/rr5515a1.htm. Accessed May 12, 2009.

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ALL CLASSES	classes. DO NO discontinue comi Monitor for hepa ease. Multiple drug-dru limited to certain lowering agents, aidsinfo.nih.gov/	Current recommended minimum effective combination consists of 3 antiretroviral medications from a minimum of 2 classes. DO NOT PRESCRIBE AS MONOTHERAPY. If one medication is discontinued due to toxicity or other reason, discontinue combination.  Monitor for hepatotoxicity; use with caution in patients coinfected with chronic Hepatitis B or C or end stage liver disease.  Multiple drug-drug interactions between many antiretroviral medications and other medication classes including but not limited to certain antimicrobials, analgesics, antiarrhythmics, oral contraceptives, anxiolytics, lipid lowering agents, acid lowering agents, herbal preparations, corticosteroids, anticonvulsants. Consult an HIV specialist, pharmacist, <a href="http://aidsinfo.nih.gov/contentfiles/AdultandAdolescentGL.pdf">http://aidsinfo.nih.gov/contentfiles/AdultandAdolescentGL.pdf</a> or <a href="http://www.epocrates.com">http://www.epocrates.com</a> prior to initiating or changing therapies for concurrent medical conditions.  Formulation Side Effects Special Notes Cost												
Medication	Formulation	ormulation Side Effects Special Notes Cost												
NUCLEOSIDE/ NUCLEOTIDE RE- VERSE TRANSCRIP- TASE INHIBITORS (NRTI)	Hepatic steatosis     Lactic Acidosis (	lany NRTIs are associated with: Hepatic steatosis Lactic Acidosis (rare but potentially fatal): look for N/V, abdominal pain, fatigue, weakness, dyspnea with an associated metabolic acidosis discontinue all potential offending agents immediately Lipodystrophy												
ABACAVIR (ZIAGEN, ABC)	Tablet: 300mg Solution 20mg/ml*	Hypersensitivity reaction; potentially FATAL if rechallenged	Hypersensitivity associated with positive HLA-B*5701: screen prior to initiation Hypersensitivity reaction: look for fever, rash, GI symptoms, cough, dyspnea, pharyngitis Dose adjustment for hepatic dysfunction Avoid in treatment naïve patient if HIV viral load > 100,000 copies/ml	\$\$\$\$\$										
DIDANOSINE (VIDEX, DDI)	Delayed release capsule: 200mg* 250mg 400mg Powder for solution: 2gm* 4gm*	Peripheral Neuropathy Pancreatitis Lactic acidosis	Weight based dosing Dose adjustment for renal dysfunction Dose adjustment if given with Tenofovir Avoid in combination with Stavudine Contraindicated for use with Ribavirin Lactic acidosis: look for N/V, abdominal pain, fatigue, weakness, dyspnea – discontinue immediately Prolonged exposure associated with noncirrhotic portal hypertension with esophageal varices	\$\$\$\$\$										
EMTRICITABINE (EMTRIVA, FTC)	Capsule: 200mg	Severe acute exacerbation of chronic Hepatitis B can occur with abrupt discontinuation in patients coinfected with chronic Hepatitis B	Active against chronic Hepatitis B Dose adjustment for renal dysfunction Contraindicated for use with Lamivudine	\$\$\$\$\$										
LAMIVUDINE (EPIVIR, 3TC)	Tablet: 100mg* 150mg 300mg Solution: 10mg/ml*	Severe acute exacerbation of chronic Hepatitis B can occur with abrupt discontinuation in patients coinfected with chronic Hepatitis B	Active against chronic Hepatitis B Dose adjustment for renal dysfunction Contraindicated for use with Emtricitabine	\$\$\$\$\$										
STAVUDINE (ZERIT, D4T)	Capsule: 15mg* 20mg* 30mg 40mg	Peripheral Neuropathy Pancreatitis Lactic acidosis Hyperlipidemia	Weight based dosing Dose adjustment for renal dysfunction Avoid in combination with Didanosine Contraindicated for use with Zidovudine Lactic acidosis: look for N/V, abdominal pain, fatigue, weakness, dyspnea - discontinue immediately	\$\$\$\$\$										
TENOFOVIR (VIREAD, TDF)	Tablet: 300mg	Severe acute exacerbation of chronic Hepatitis B can occur with abrupt discontinuation in pa- tients coinfected with chronic Hepatitis B Renal impairment, Fanconis Syndrome Decreased bone mineral density	Active against chronic Hepatitis B Dose adjustment for renal dysfunction Dose adjustments if given in combination with Didanosine and/or Atazanavir	\$\$\$\$\$										
ZALCITABINE (HIVID, DDC)	No longer manufac	ctured												
ZIDOVUDINE (RETROVIR, AZT)	Tablet: 300mg Syrup: 50mg/ml* Capsule: 100mg*	Bone marrow suppression Anemia (usually macrocytic) Myopathy Nausea	Contraindicated for use with Stavudine Caution in use with other agents that cause bone marrow suppression Dose adjustment for renal dysfunction											

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### MEDICATIONS (NOTE: DO NOT INITIATE, CHANGE OR DISCONTINUE HIV MEDICATIONS WITHOUT FIRST CONSULTING AN HIV SPECIALIST.)

NON- NUCLEOSIDE REVERSE TRANSCRIP- TASE INHIBI- TORS	Many NNRTIs are a Rash and potential s severe or accompa followed closely. Hyperlipidemia Multiple drug-drug ir AdultandAdolescent Cross class resistan	ssociated with: Stevens Johnson Syndrome: mo nied by mucous membrane invo nteractions; consult an HIV speci GL.pdf or http://www.epocrates.	nitor for rash during initiation of these medications and discontivement. Less severe rash may be treated with antihistamines alist, pharmacist, <a href="http://aidsinfo.nih.gov/contentfiles/com">http://aidsinfo.nih.gov/contentfiles/com</a> for specifics.  and poor virologic response, consult HIV specialist prior to initializations.	ntinue if s and					
(NNRTI)	second NNRTI. Long half life: consu	It HIV specialist if possible prior	to discontinuation to avoid the emergence of resistant mutatic	ons.					
MEDICATION	FORMULATION	SIDE EFFECTS	SPECIAL NOTES	соѕт					
DELAVIRDINE (RESCRIPTOR (DLV)  RESCRIPTOR 200 mg	Tablet: 200mg*		Not 1 <sup>st</sup> line agent; rarely used.	\$\$\$\$\$					
EFAVIRENZ (SUSTIVA, EFV)	Tablet: 600mg Capsule: 50mg* 100mg* 200mg*	CNS side effects: dizzi- ness, bizarre dreams False positive with certain types of cannabanoid test- ing Rash	Potentially teratogenic especially in 1st trimester; category D: obtain pregnancy test prior to starting in women of child bearing potential.  Avoid taking with a high fat meal.	\$\$\$\$\$					
ETRAVIRINE (INTELENCE, ETR)	Tablet: 100mg* 200mg*	Hepatotoxicity Hypersensitivity reaction Rash		\$\$\$\$\$					
NEVIRAPINE (VIRAMUNE, NVP)	Tablet: 200mg Solution: 50mg/5ml*	Hepatotoxicity Rash	Avoid starting Nevirapine in women with CD4 >250 cells/mm³ or men with CD4 >400 cells/mm³. Once patients on NVP reach a CD4 cell count higher than these cut-offs, they are not required to discontinue unless otherwise indicated.  Dose escalation with initiation: 200 mg daily for 2 weeks then 200mg 1 BID or 2 QD.  Monitor LFTs baseline, 2 weeks after initiation and monthly for the 1st 18 weeks of therapy; discontinue if clinical hepatitits or severe rash occurs and do not rechallenge.	\$\$\$\$\$					
RILPIVIRINE (EDURANT, RPV)	Tablet: 25 mg*	Depression, insomnia, headache, rash	Requires an acid environment for optimal absorption. Contraindicated for use with proton pump inhibitors; specific dosing recommendations for use with other acid lowering agents. Consult an HIV specialist or package insert for specifics.  Use with caution in patients with baseline HIV viral load >100,000	\$\$\$\$\$					
PROTEASE INHIBITOR (PI)	<ul> <li>AdultandAdoles</li> <li>Hyperlipidemia vomiting, diarrh C; Increased bl</li> </ul>	drug interactions; consult an HINscentGL.pdf for specifics. Hyperglycemia; Lipodystrophy/ea; Hepatotoxicity especially in peeding in hemophiliacs	V specialist, pharmacist or <a href="http://aidsinfo.nih.gov/contentfiles/">http://aidsinfo.nih.gov/contentfiles/</a> Fat redistribution; Elevated transaminases; GI intolerance: Napatients with underlying liver disease or coinfection with Hepatir in order to achieve more optimal drug levels.						
ATAZANAVIR (REYATAZ, ATV)	Capsule: 150mg* 200mg 300mg	Indirect hyperbilirubinemia: jaundice, scleral icterus. Rarely a cause for discontinuation PR prolongation Nephrolithiasis (rare)	Requires an acid environment for optimal absorption; specific dosing recommendations for use with proton pump inhibitors, H2 blockers, antacids: consult an HIV specialist or <a href="http://aidsinfo.nih.gov/contentfiles/AdultandAdolescentGL.pdf">http://aidsinfo.nih.gov/contentfiles/AdultandAdolescentGL.pdf</a> for specifics.  Dose adjustment for hepatic dysfunction  Dose adjustment if given with Tenofovir.						

<sup>\*</sup>Non-Formulary/Restricted. See Formulary for Details.

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MEDICATIONS (NOTE: DO NOT INITIATE, CHANGE OR DISCONTINUE HIV MEDICATIONS WITHOUT FIRST CONSULTING AN HIV SPECIALIST.)

MEDICATION	FORMULATION	SIDE EFFECTS	SPECIAL NOTES	COST
PROTEASE INHIBITOR	R (PI) (CONTINUED)			
DARUNAVIR (PREZISTA, DRV)	Tablet: 400mg 600mg	Rash; caution if sulfonamide allergy. Stevens Johnson Syndrome has been reported Headache	Should always be used with Ritonavir	\$\$\$\$\$
FOSAMPRENAVIR (LEXIVA, LEX)	Tablet: 700mg	Rash; caution if sulfonamide allergy Nephrolithiasis (rare)	Dose adjustment for hepatic dys- function	\$\$\$\$\$
INDINAVIR (CRIXIVAN, IND)	Capsule: 200mg 400mg	Headache, Asthenia, Metallic taste Thrombocytopenia, Hemolytic anemia Alopecia Indirect hyperbilirubinemia: jaundice, scleral icterus - rarely a cause for dis- continuation Nephrolithiasis	Dose adjustment for hepatic dysfunction	\$\$\$\$\$
KALETRA (LOPINAVIR/RITONAVIR LPV)	Tablet: 200mg-50mg 100mg-25mg* Solution: 400mg- 100mg/5ml*	Asthenia PR and QT prolongation	Coformulated with ritonavir	\$\$\$\$\$
NELFINAVIR (VIRACEPT, NLF)	Tablet: 250mg* 625mg Powder: 50mg/ gm*	Diarrhea	Do not use with Ritonavir	\$\$\$\$\$
RITONAVIR (NORVIR, RTV)	Tablet: 100mg Capsule: 100mg Solution: 80mg/ ml*	Parethesia – circumoral and extremities Asthenia Taste perversion	Ritonavir primarily used to increase the levels of other Pls. Full dose ritonavir poorly tolerated.	\$\$\$\$\$
SAQUINAVIR (INVIRASE, SQV)	Tablet: 500mg Capsule: 200mg*	Headache PR and QT prolongation	Should always be used with Ritonavir Pre Treatment EKG is recommended.	\$\$\$\$\$
FORTOVASE (SAQUINAVIR, SGC)	N/A	No longer manufactured		N/A
TIPRANAVIR (APTIVUS, TPV)	Capsule: 250mg	Rash; caution if sulfonamide allergy. Potentially fatal hepatotoxicity Intracranial hemorrhage	Should always be used with Ritonavir	\$\$\$\$\$
INTEGRASE STRAND	TRANSFER INH	IBITOR (INSTI)		
RALTEGRAVIR (ISENTRESS, RAL)	Tablet: 400mg	Asthenia Nausea Diarrhea Headache CPK elevation		\$\$\$\$\$
FUSION INHIBITOR				
ENFUVIRTIDE (FUZEON, T20)	For injection: 90mg/vial*	Injection site reactions Increased bacterial pneumonia Hypersensitivity reaction	Subcutaneous injection BID	\$\$\$\$\$

**S**UMMARY

**DECISION SUPPORT** 

## PATIENT EDUCATION/SELF MANAGEMENT

MEDICATIONS (NOTE: DO NOT INITIATE, CHANGE OR DISCONTINUE HIV MEDICATIONS WITHOUT FIRST CONSULTING AN HIV SPECIALIST.)

MEDICATION	FORMULATIONS	SIDE EFFECTS	SPECIAL NOTES	COST					
CCR5 INHIBITOR	Only active agains	t CCR5 tropic strains of HIV: must obtain	tropism assay ("Trofile") prior to initia	ation.					
MARAVIROC (SELZENTRY, MVC)	Tablet: 150mg* 300mg*	Abdominal pain Cough Dizziness Rash Hepatotoxicity Orthostatic hypotension	Many drug-drug interactions; consult an HIV specialist, pharmacist or <a href="http://aidsinfo.nih.gov/contentfiles/AdultandAdolescentGL.pdf">http://aidsinfo.nih.gov/contentfiles/AdultandAdolescentGL.pdf</a> prior to initiation  Tropism testing required prior to starting.	\$\$\$\$\$					
NUCLEOSIDE/TIDE REV	ERSE TRANSCR	IPTASE INHIBITOR (NRTI)							
ABACAVIR/ LAMIVUDINE (EPZICOM, EPZ)		Use information regarding each individ- ual component, listed above.	Use information regarding each individual component, listed above.	\$\$\$\$\$					
EFAVIRENZ/TENOFOVIR/ EMTRICITABINE (ATRIPLA)	Tablet: 600mg/200mg/300 mg	Use information regarding each individual component, listed above.	Use information regarding each individual component, listed above.	\$\$\$\$\$					
TENOFOVIR/ EMTRICIT- ABINE (TRUVADA, TVD) 701		Use information regarding each individ- ual component, listed above.	Use information regarding each individual component, listed above.	\$\$\$\$\$					
ZIDOVUDINE / LAMIVUDINE (COMBIVIR, CMB)	Tablet: 150mg/300mg*	Use information regarding each individual component, listed above.	Use information regarding each individual component, listed above.	\$\$\$\$\$					
ZIDOVUDINE / LAMI- VUDINE /ABACAVIR (TRIZIVIR, TZV)	Tablet: 300mg/150mg/300 mg*	Use information regarding each individ- ual component, listed above.	Use information regarding each individual component, listed above.	\$\$\$\$\$					
	prior to disconti	specialist OR <a href="http://aidsinfo.nih.g">http://aidsinfo.nih.g</a> nuing prophylaxis when possible  AXIS: START IF CD4 < 200 CELLS/N							
OF ORAL CANDIDIASIS TRIMETHOPRIM-SULFAMETHOX	XAZOLE (SMX-TMP,	Rash, Stevens Johnson Syndrome	Dose adjustment for renal dysfunction	\$					
BACTRIM DS, SEPTRA DS)  DAPSONE (ACZONE)		Hematologic abnormalities  Rash, hypersensitivity reaction Hematologic abnormalities Hemolytic anemia (G6PD related) Neuropathy	Use with caution if G6PDdeficient (rare)  Contraindicated in G6PD deficiency	\$					
ATOVAQUONE (MEPRON)*		Rash, Gl intolerance		\$\$\$\$\$					
PENTAMIDINE (PENTAM)		Rash, Renal impairment, Bronchospasm, Arrhythmia, Hematologic abnormalities	Given via nebulizer for prophylaxis Dose adjustment for renal dysfunction	\$\$\$					
		T IF CD4 <100 CELLS/MM3 AND PA							
TRIMETHOPRIM SULFAMETHO TMP, BACTRIM DS, SEPTRA		See above Pneumocystis jiroveci (PCP) prophy							
DAPSONE PLUS PYRIMETHAM AND LEUKOVORIN	IINE (DARAPRIM)	See above Pneumocystis jiroveci (PCP) prophy Pyrimethamine (Daraprim): Hemolytic anemia (							
MYCOBACTERIUM AVIUM	COMPLEX (MAC)	: START IF CD4 <50 CELLS/MM3							
AZITHROMYCIN *		Rash, Diarrhea, Nausea, Abdominal pain							
CLARITHROMYCIN*		Rash, Diarrhea, Nausea, Abdominal pain, Pseudomembranous colitis							

<sup>\*</sup>Non-Formulary/Restricted. See Formulary for details.

DRUG-DRUG INTERACTIONS BETWEEN HIV MEDICATIONS AND CCHCS FORMULARY MEDICATIONS: Note: this is not a comprehen-

list of all interactions between HIV medications and other agents. Please consult http://www.aidsinfo.nih.gov/ContentFiles/AdultandAdolescentGL.pdf for additional details.

## **CCHCS Care Guide: HIV**

**SUMMARY** 

**DECISION SUPPORT** 

PATIENT EDUCATION/SELF MANAGEMENT

PI Other	Darunavir Fosamprenavi Indinavir Lopinavir/RTV Melfinavir Saquinavir Tipranavir Tipranavir Tipranavir Tipranavir Maltegravir	ion bnl lod es din es	so at so trace of any than they have at any at the second	<i>x</i> x x x x x x x x x			, , , , , , , , , , , , , , , , , , ,			/ / / / / / / / / / / / / / / / / / /	, , , , , , , , , , , , , , , , , , ,			2/x	, , , , , , , ,		<i>Y Y Y Y Y Y Y Y Y Y</i>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	x				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	x x x x x x x x x			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	`	X	× × ×
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			Anticoagulants/Antiplatelets	Warfarin	Clopidogrel	Anticonvulsants	Carbamazepine	Carbanazepine	Lamotrigene	Phenobarbital	Phenytoin	Valproic Acid	Antifungals	Fluconazole	Itraconazole	Antimicrobial/antimycobacterials	Clarithromycin	Rifabutin	Rifampin	Other antivirals	Ribavirin	Asthma/COPD medications	Fluticasone (inhaled or intranasal)	Salmeterol	Cardiac medications	Digoxin	Dihydropyridine CCB: (Amlodipine, Nifedipine, Felodipine)	Diltiazem	Amiodarone	Flecanide

X CONTRAINDICATED; VUSE WITH CAUTION, CONSIDER ALTERNATIVE AGENT AND/OR DOSING ADJUSTMENT RECOMMENDED; Please consult entFiles/AdultandAdolescentGL.pdf for additional details. For additional details regarding Nelfinavir, please consult http://dailymed.nlm.nih.gov/dailymed/

druginfo.cfm?id=33770. For additional details regarding Indinavir, please consult <a href="http://dailymed.nlm.nih.gov/dailymed/druginfo.cfm?id=32971">http://dailymed.nlm.nih.gov/dailymed/druginfo.cfm?id=32971</a>. For additional details regarding Rilpivirine, please consult http://dailymed.nlm.nih.gov/dailymed/druginfo.cfm?id=32971</a>. For additional details regarding Rilpivirine, please consult http://dailymed.nlm.nih.gov/dailymed/druginfo.cfm?id=32971</a>. For additional details regarding Rilpivirine, please

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## CCHCS Care Guide: HIV Page 11

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PATIENT EDUCATION/SELF MANAGEMENT

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		Lidocaine	Corticosteroids	Dexamethasone	Fluticasone (inhaled or intranasal)	Gastrointestinal medications	Antacids	Omeprazole	Ranitidine	Hormonal Contraceptives	EthinylEstradiol	Lipid lowering medications	Lovastatin	Pravastatin	Simvastatin	Rosuvastatin	Miscellaneous	Allopurinol	Colchidne	Ergot derivatives	Narcotics	Methadone	Psychiatric medications	Amitriptyline	Nortriptyline	Paroxetine	Sertraline

X CONTRAINDICATED; VUSE WITH CAUTION, CONSIDER ALTERNATIVE AGENT AND/OR DOSING ADJUSTMENT RECOMMENDED; Please consult druginfo.cfm?id=33770. For additional details regarding Indinavir, please consult http://dailymed.nlm.nih.gov/dailymed/druginfo.cfm?id=32971. For additional details regarding Rilpivirine, please consult http://www.edurant-info.com/sites/default/files/EDURANT-Pl.pdf http://www.aidsinfo.nih.gov/ContentFiles/AdultandAdolescentGL.pdf for additional details. For additional details regarding Nelfinavir, please consult http://dailymed.nlm.nih.gov/dailymed.

## PATIENT EDUCATION: HIV

# WHAT YOU SHOULD KNOW ABOUT HIV:

- 1. AIDS is caused by HIV.
- 2. You can have HIV for years and not feel sick.
- 3. HIV, if left untreated, gradually destroys your immune system, leaving you at risk for other serious and potentially deadly infections. Effective treatment, when given early, can save your life.
- 4. There is no cure or vaccine for HIV. Effective treatment can prolong your life and prevent potentially painful and serious complications.
- 5. **Know your status:** ask your medical provider for a routine HIV test if you have never been tested. HIV may take up to six months to become detectable in your body.
- 6. **Protect yourself:** Sexual activity and the use of needles for non-prescribed purposes is illegal within the California Department of Corrections and Rehabilitation and may lead to prosecution. Know how HIV is most commonly passed and avoid those risky behaviors. HIV can be transmitted through unprotected sexual contact and sharing needles with someone who is HIV infected.
- 7. **Know how HIV is NOT spread:** dry kissing, shaking hands, hugging, sharing utensils or food, toilets.
- 8. If you have been exposed, seek medical attention, especially if you have flu-like symptoms, night sweats, fevers, weight loss, diarrhea, swollen lymph glands, oral thrush (white fungus patches in your mouth) or vaginal yeast infections.





**S**UMMARY

**DECISION SUPPORT** 

PATIENT EDUCATION/SELF MANAGEMENT

## HIV MEDICATIONS PRESCRIBED TO:

Nucleoside/Nucleot	IDE REVERSE TRANSCRI	IPTASE INHIBITORS (NR	TI)
ABACAVIR (ZIAGEN, ABC)	DIDANOSINE (VIDEX, DDI)	EMTRICITABINE (EMTRIVA, FTC)	LAMIVUDINE (EPIVIR, 3TC)
GX 623	Par St.	200 m	GX CU7
STAVUDINE (ZERIT, D4T)	TENOFOVIR (VIREAD, TDF)	ZIDOVUDINE (RETROVIR, AZT)	
BMS 30	4331	(ex cms)	
Non-Nucleoside Rev	ERSE TRANSCIPTASE IN	HIBITORS (NNRTI)	
DELAVIRDINE (RESCRIPTOR DLV)	EFAVIRENZ (SUSTIVA/EFV)	ETRAVIRINE (INTELENCE, ETR)	NEVIRAPINE (VIRAMUNE, NVP)
RESCRIPTOR 200 mg	SUSTIVA	TMC125	54 193
RILPIVIRINE (EDURANT, RPV)	COFORMULATIONS		
(A)	EFAVIRENZ/TENOFOVIR/ EMTRICITABINE (ATRIPLA)	TENOFOVIR/EMTRICITABINE (TRUVADA, TVD)	ZIDOVUDINE / LAMIVUDINE (COMBIVIR, CMB)
IMC	123	701	(GYFC3)
	ABACAVIR/LAMIVUDINE (EPZICOM, EPZ)	ZIDOVUDINE /LAMIVUDINE / ABACAVIR (TRIZIVIR, TZV)	
	GS FC2	GX LL1	
PROTEASE INHIBITOR (	PI)		
ATAZANAVIR (REYATAZ, ATV)	DARUNAVIR (PREZISTA, DRV)	FOSAMPRENAVIR (LEXIVA, LEX)	INDINAVIR (CRIXIVAN, IND)
	TMCHH	GX1LU7	obi OS
KALETRA (LOPINAVIR/ RITONAVIR LPV)	NELFINAVIR (VIRACEPT, NLF)	RITONAVIR (NORVIR, RTV)	SAQUINAVIR (INVIRASE, SQV)
□KA	625	D5 05	ROCHE ROCHE 0245
TIPRANAVIR (APTIVUS, TPV)			
TPV 250			
OTHER			
ENFUVIRTIDE (FUZEON, T20)	MARAVIROC (SELZENTRY, MVC)	RALTEGRAVIR (ISENTRESS, RAL)	

## **HIV: WHAT YOU SHOULD KNOW**



- 1) There is no cure for HIV, but effective treatment when started early and taken consistently can prolong your life and prevent serious and painful complications and decrease the risk of you transmitting HIV to others.
- 2) **HIV medications must be taken daily**. Missing doses increases your risk of developing resistance, which would mean that the medications are no longer able to control your HIV. Sometimes, resistance can develop to medications that you have not yet taken, and your future treatment options may become very limited.
- 3) Know your numbers: what labs help you know how you are doing?
  - CD4 cell count (also called T cell count) tells you how strong your immune system is. A normal CD4 cell count is 700 – 1200; dangerous is 200 and below. The goal of treatment is to get your CD4 cells as high as possible by controlling your HIV viral load, and to take medications to prevent other infections if your CD4 is dangerously low.
  - HIV viral load measures how much HIV is present throughout your bloodstream. The goal of treatment is to have a very low viral load level, also called "undetectable" on lab reports. Remember, if your viral load is undetectable, you still have HIV, you are still potentially infectious and if you stop your medications your viral load will increase again which will cause your CD4 cells count level to worsen.
- 4) **Notify medical personnel** if you are unable to take your HIV medications due to severe side effects, forgetfulness or other reasons.
- 5) Protect others: Sexual activity and the use of needles for non-prescribed purposes is illegal within the California Department of Corrections and Rehabilitation and may lead to prosecution. Know how HIV is most commonly passed and avoid those risky behaviors. HIV can be transmitted through unprotected sexual contact and sharing needles.
- 6) Know how HIV is NOT spread: dry kissing, shaking hands, hugging, sharing utensils or food, toilets.

YOUR MEDICAT	TION SCHEDULE:										
NAME OF	FOOD		(number	r of pills)							
MEDICATION	REQUIREMENT?	Morning	Lunch	DINNER	BEFORE BEDTIME						
YOUR MOST RECENT CD4 CELL COUNT WAS ON (DATE)											
YOUR MOST RECENT HIV VIRAL LOAD WAS ON (DATE)											